

HARRIERS WELL UP IN STIFF RACES AT I. C. 4A CONTESTS

**Jack Kearns Again Leads Team
To Finish Line; Placing
Thirty-Eighth**

VARSITY SCORE IS 250

Coming closer to the winning teams again this year, the Technology harriers placed ninth for the varsity, and seventh for the freshman races in Van Cortlandt Park, New York City, last Monday afternoon in the I.C.A.A.A. cross-country championship runs. In spite of the tremendous run of record-breaking, the teams ran better this year than last.

Both races were featured by record-smashing beyond the expectations of any of the coaches, the varsity record being cut by 42 2-5 seconds, and the freshman record by 24 seconds. Dean of Penn was the first man home in the varsity race, and Frank Crowley of C.C.N.Y., the leader of the freshmen.

Kearns First M.I.T. Runner

Running against such competition, the teams proved again and again their ability in placing so near the leaders. On the varsity squad, Jack Kearns was the first finisher, leading the next man on his team, Charlie Hall, in by a 36-second margin. Kearns was listed in thirty-eighth place, and Hall in forty-ninth.

Don Gilman was the third team member to cross the finish line, in fifty-second place only a few seconds behind Hall. The other two Technology scorers were Ellery Clark, in sixty-second, and Paul Gerhardt, in seventy-ninth places, respectively. Each of these men ran a fine race over the course, and Coach Hedlund is gratified with the results of the race.

New Freshman Record

The Van Cortlandt Park course of the I.C. 4A run has always been six miles long, one mile more than any of the ordinary runs, so it is one which cuts deep into the stamina which the men have developed during the season, and is the final test of the cross-country runner. The fact that the records were broken by such wide margins caused some comment on the possibility that the length of the course might have been changed. In the freshman run, the mark set by Frank Crowley came within one and two-fifths seconds of Paavo Nurmi's record for the three-mile run on a flat track. Crowley holds an international record for the flat mile run, which he set in a Canadian meet.

When it is considered that the type of athlete coming to Technology is not of this sort, one who has not been trained by three or four of the largest institution coaches before he enters collegiate competition, the showing made by the Institute runner is nothing short of phenomenal.

(Continued on Page Four)

MAYOR CURLEY ASKS FOR INSTITUTE AID

Pleas for Support of Morgan Memorial Goodwill Week

Technology has been requested by Mayor Curley to participate in the program of the Morgan Memorial Goodwill Industries Week. Morgan Memorial, 89 Shawmut Avenue, Boston, is the scene of this program, which is taking place this week. To stimulate community unemployment relief, particularly in the way of providing work, wages and training, instead of the dole, is the purpose of this program.

A special invitation is extended to the Faculty of the Institute to be present on Thursday morning, November 19, at 8 o'clock, when President Lowell of Harvard will deliver an address. Saturday, the last day of the program, is the day when all students are invited to visit the plant.

Morgan Memorial is a community enterprise which hopes to give aid in the form of employment to over ten thousand people during the coming winter.

Members of '34 Football Squad Awarded Numerals

Members of the Class of 1934 who received their numerals for participating in the Field Day football game are:

Paul Armstrong Archibald
Henry William Eagan
Ralph Nelson Geil
Richard Gorman, Jr.
Charles Francis Hill
Lowell J. W. Lammers
Robert Murdo McIver
Frank Roscoe Milliken, Jr.
Stephen Louis Muther
George Willard Patch, Jr.
Herbert Plass
Frank Poole
Robert Kemp Roulston
Maynard Arthur Sayles
Raymond Arthur Schneck
Edward Sieminski
Hoyt Post Steele
John Webster Westfall
Proctor Wetherill
Roger Hargreaves Williams
Carl Henry Wilson
Max Winerman
Lloyd E. Clark, Manager

Musical Clubs Will Give Charity Concert at Morgan Memorial

Will Give Two Hour Program In Memorial Chapel As Aid To Fund Drive

As a part of the Morgan Memorial Drive for funds, the Combined Musical Clubs have undertaken to present a concert for the nominal sum of one dollar, in the interests of charity. The concert, which is to be given on Thursday at 7.30 o'clock, will be held in the chapel of the Morgan Memorial at 89 Shawmut Avenue.

Morgan Memorial, which gives aid to the poor of Boston without distributing it as a dole, has obtained the cooperation of the Clubs for their College-Student Day. The day's program is to start with an address by President Lowell of Harvard University, followed by other educators of the Boston area. Institute students are particularly urged to come and look over the plant and facilities. Admission will be free, including the concert in the evening.

Probably for the first time in the memory of the present generation of Technology men, the Clubs will be dressed informally for their two-hour program. This has been necessitated by the early hour at which the concert is to be given.

M. I. T. BUYS PLANE FOR WEATHER TESTS

Professor Sayre Will Fly Craft From Boston Airport

Officials of the Institute have bought a Warner-powered Cessna monoplane with which they expect to conduct extensive experiments in meteorology during the next few weeks. Professor Daniel C. Sayre is expected to fly it from the Boston airport to altitudes of more than 15,000 feet.

The ship has been equipped with a meteorograph for recording barometric pressure, temperature, and humidity at various altitudes. It is also expected that the information will be available to the Weather Bureau at the airport, as well as to the Aeronautics Department at Tech.

BARGAINS OFFERED AT BOOK EXCHANGE

Hundreds of used textbooks went on sale at depression prices at the T.C.A. Book Exchange yesterday. Books on dozens of technical subjects and several non-technical volumes many of which sold for three dollars each, originally, were offered at prices from ten cents up.

Each year the T.C.A. Book Exchange disposes of the books which have been on the shelves for a year, unless they are claimed by the owners. In the past the books have been sent to the American Library Association, but this year it was decided to offer them for sale to the students at low prices. The proceeds of the sale will go to reduce the deficit of the T.C.A. Drive.

CAPTAIN FRIERSON WILL BE SPEAKER AT A. E. S. SMOKER

Head of Air Corps Unit Will Tell of Experiences In German Prison Camp

Captain Samuel G. Frierson, U.S.A.C., head of the Air Corps unit of the R.O.T.C. at the Institute, will be the featured speaker at the Aeronautical Engineering Society Smoker, which will be held in Room 3-270 at 7.30 p.m., on Thursday, November 19. Captain Frierson's subject will be "Behind Both Lines In The World War," and all the members of the Faculty and student body are invited to attend.

Captain Frierson joined the up-in-the-air corps as soon as the United States entered the war, and saw much active service as a pilot in the observation forces. Midway in his flying career, he was shot down by Germans and captured. After spending some time in a prison hospital recovering from his wounds, he was taken to a German prison camp where he spent the rest of the war observing how things were done on the German side of the lines.

His talk will be illustrated with pictures and lantern slides, many of which are almost unique in their class. One of these is of the interior of the prison hospital, and is probably the only one in existence.

Four years ago, when Captain Frierson first came to the Institute, one of his first public appearances was with a talk on the same subject before the Aeronautical Engineering Society. His talk Thursday evening will be somewhat in the nature of a farewell address, as this is the last year of his detail at the Institute. The Government has decided to discontinue the air corps unit at Technology, and Captain Frierson will probably be transferred back to Regular Army duty at the end of this year.

Besides the featured talk, plans will be formulated for the resumption of the membership campaign which was stopped because of the death of Dr. Stratton, and also the possibility of joining the New England Glider Association will be discussed. The smoker is open to everyone, and there will be free smokes distributed to everyone present.

SERIES OF LECTURES ON EARTHQUAKES

Arrangements have been made by the Civil and Sanitary Engineering Department for a series of lectures upon earthquake phenomena by Professor Kyoji Suyehiro of Tokio, Japan. These lectures will be given on Monday, Tuesday and Wednesday, November 30, December 1 and 2, at 4 o'clock in Room 5-330.

Professor Suyehiro is the Director of the Earthquake Institute connected with the Imperial University at Tokio.

Willie Jackson Makes and Breaks a Miniature Riot

The Honorable Willie Jackson found himself in the midst of a miniature, yet very threatening little riot yesterday afternoon. Peculiarly enough, Uncle Willie was the man who produced the trouble and suffered therefrom. Poetic justice swooped from on high and caught the little man trying to be a great big humorist. It seems that the Cashier's office has a lot of money credited from last year's Lab deposits and wants to get rid of it, so they asked Willie to announce that fact.

This he did on his own blackboard in the following words, gracefully traced on the black surface; "Tech Makes First Move To End Depression — Money Awaits You — If A Red Cross Appears Before Your Name — Ask At Room 10-180." The names of the entire Institute enrollment followed, with the lucky men designated by crosses. Such a crowd gathered, vainly attempting to see crosses before their names, that the work of art, including the board, was close to destruction. Willie saved the day, however, wading valiantly in, tooth and nail, to rescue his pet asset — a blackboard on which to be humorous.

Freshmen Urged to Try For Gym Team Manager

There are several vacancies in the list of candidates for managers of the freshman gym team. Any freshman who is interested in trying out for these positions is eligible to enter the competition. Men interested are requested to apply to either Manager Calvin C. Mohr '33, or the assistant manager of the varsity team on the floor of Walker Gymnasium, any evening after 5 o'clock.

Corporation XV Will Hear J. M. Carmody at Dinner Meeting

Industrial Management Expert Will Discuss Russian Conditions

John M. Carmody, editor and publisher of "Factory and Industrial Management," will be the speaker at the first dinner meeting of Corporation XV. The dinner, which will be held in the Faculty Dining Room, Walker Memorial, on Friday at 5.45 o'clock, is planned to acquaint non-members with the aims of the Society.

Mr. Carmody will speak on "What is going on in Russia today." He is considered to be eminently qualified to speak on this subject, since he spent three months of the past summer in Russia, studying conditions. Time has been allowed for questions and discussion at the close of the talk.

All those who are interested are urged to come to this meeting. An opportunity will be given for non-members who so desire to enroll in the group at this time.

Students who either are members of Course XV or are contemplating signing up for it next year should find this meeting of particular interest. The dinner will be over at the latest not after 8.30 o'clock.

STUDENTS TO SPONSOR MEETING NEXT SUNDAY

Former Socialist Presidential Candidate Will Speak

Residents of the Herrick Student House, many of whom are Technology students, are sponsoring a meeting to be held at the Mount Vernon Church in Boston, next Sunday at 7 o'clock.

Norman Thomas, Princeton '05, who is chairman of the League for Industrial Democracy, will speak on the subject "The World's Way Out." Mr. Thomas was the Socialist candidate for president in 1928, and was also the party's candidate for the office of president of the Borough of Manhattan.

Next Sunday's meeting, which will be held in the chapel, will be open to all who desire to attend.

CLASS OF 1908 HAS REUNION IN WALKER

Many Prominent Members Meet In Early Get-Together

Members of the Class of 1908 met at one of their bi-monthly reunion dinners in the Faculty Dining Room of Walker Memorial at 6.30 o'clock yesterday evening. This was the first of several informal reunions planned for this year. It is expected that meetings will be held in February and in May. Plans are being formulated for their silver reunion, which is in the not too distant future. Harold L. Carter, secretary, and Lincoln Mayo, treasurer, presided at the dinner. Since it was an informal affair, there were no speakers; the purpose of these reunions is merely to permit the members of the class to talk over old times. Other members who were present were Wilfred E. Booth, Arnold W. Heath, Harold P. Gurney, Franklin T. Towle, Henry R. Sewell, Everett H. Newhall, Eber I. Wells, Waldo F. Davis, Alton M. Cook, Arthur E. Skillings, Arthur B. Appleton, Herbert T. Gerrish, LeSeur T. Collins, Francis V. Carey, Arthur C. Merrill.

CASA LOMA BAND TO PLAY AT I. F. C. DANCE ON DEC. 4

First Conference Dance of Year Will Be Held At Hotel Continental

EXPECT MANY TO ATTEND

Said to be one of the most popular bands in American college circles, the Casa Loma orchestra has been engaged to play at the first Interfraternity Dance, which will be held in the ballroom of the Hotel Continental in Cambridge, on December 4.

This band was the one which the Junior Prom Committee last year tried unsuccessfully to obtain for the Prom. They have played at Junior and Senior Proms and at other dances at Princeton, Yale, University of Pennsylvania, Cornell, Amherst, Annapolis and many other colleges, and have just completed a long engagement at the Castle Farm, in Cincinnati.

Large Ballroom Engaged

With a capacity of more than five hundred couples, the main ballroom of the Hotel Continental is expected to prove ideal for the dance; it is said to be one of the largest and most beautiful in New England. There are large lounges, and the hall has been equipped with many innovations in lighting equipment, so that novel combinations may be expected. Refreshments will be served during the intermission at about 12 o'clock.

The last Interfraternity dance was most successful, and all indications point to this one as being even more so. More than four hundred couples are expected. A supply of tickets will be sent to all house treasurers, and if these run out, additional tickets may be obtained by the house presidents.

Plan Another Dance

Another dance is being planned by the Conference, which will probably be held sometime in March; it is also possible that a third may be held, if an open date can be found. Plans for the second dance are not yet well formulated, and will depend to some extent on the success of the coming event.

LEONARD C. WATSON TO ADDRESS A. G. C.

Course XVII Will Hold Second of Luncheon Meetings

Mr. Leonard C. Watson, President of the Boston Chapter of the Associated General Contractors of America, and Mr. Burt LeRoy Knowles, will be the principal speakers at the second luncheon meeting of Course XVII, to be held Friday at 12.15 o'clock at the Riverbank Court Hotel. Mr. Watson will speak on "The History of the A. G. C.," and the subject of Mr. Knowles' address is to be "Aims and Purposes of the A. G. C."

Other notables expected include Mr. H. P. Converse, President of the H. P. Converse Company, and Mr. W. M. B. Freeman of the New England Foundation Company. Until the formal acceptance of Technology's Student Branch into the national organization early in December, the group is functioning under the direction of an executive committee.

CATHOLIC CLUB TO HOLD FORMAL DANCE

Featuring Leo Reisman and his orchestra, the first formal dance and reception of the Technology Catholic Club will be held next Friday evening in the Main Hall of Walker at 9 o'clock.

Students of three other local colleges will be present, as the dance is to be given under the auspices of the New England College Newman Clubs of Emerson, Boston University, and Framingham Normal School, and will be sponsored by the Technology Catholic Club.

Tickets may be purchased from the Club's officers at \$2.50 per couple.

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Undergraduates
of M. I. T.

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The SPECTATOR

"What Can We Do For You?"

The Spectator recently had occasion to visit the Homberg Infirmary. You walk in, and the first thing you have to do is sit down and fill out an information blank. Name? Address? Course? Class? and so forth. And then you see the following printed question, popping out at you from the middle of the page:

"What can we do for you?"

You think that a bit strange. In the first place, it is the kind of a question you would expect from a pawnshop proprietor or a paint-store clerk. In the second place, it asks of you the very information you have come seeking in the first place. "What can you do for me? Why, that is what I came here to find out!"

Well, if you are not too far under the weather, it dawns on you that you are being invited to write down your symptoms, which you proceed forthwith to do with gusto and vigor: cold, indigestion, ear-ache, stomach-ache, ingrown toenails, etc.

It's one of the local customs.

A Chance For Ability

The official attitude toward Tech Show seemed to be, "He's down! Kill him!"

The Tech Show Board and the Institute Committee kicked the bucket and left Bill Greene in sole charge of the thankless job of raking over the wreckage and building anew. They didn't offer any suggestions, or even a resolution of encouragement.

There are men at Technology with ability and courage enough to take up the job where the last management dropped it.

There is enough literary talent in one of Bill Greene's English classes to write a

(Continued on Page Four)

OPEN FORUM

Unemployment Relief

To the Editor of THE TECH:

Mayor Curley has requested the participation of the Massachusetts Institute of Technology in the program of the Morgan Memorial Goodwill Industries Week to be held at the Morgan Memorial, 89 Shawmut Avenue, Boston, during the week of November 15 to November 21. The purpose of this program is to stimulate community unemployment relief, particularly in the way of providing work, wages, and training, instead of the dole.

The Faculty of the Institute is particularly invited to visit the Morgan Memorial on Thursday, November 19, when there will be an address by President Lowell of Harvard at 8 o'clock in the morning, and words of greeting from the heads of other colleges and universities in the community.

Students are particularly invited to visit the plant on Saturday, the 21st.

The Morgan Memorial is a community enterprise which hopes to give employment to over ten thousand people during this coming winter.

I should be glad if you will publish this announcement in the first issue of THE TECH appearing next week.

(Signed) KARL T. COMPTON,
President.

R. O. T. C.

To the Editor of THE TECH:

Mr. Hall's letter of November 16, suggesting the substitution of courses in Law and Economic Development in lieu of Compulsory Military Training, I believe, deserves a *coup oppose*. His interpretation of the Morrill Act, now incorporated in the National Defense Act of 1920, is quite correct. As far as the War Department is concerned, attendance on the basic course may be either compulsory or voluntary at the option of the Institute authorities. But I do not think Mr. Hall has considered what the result would be if the basic course were offered as an option.

I have never met a freshman who would admit he was in sympathy with drill and military instruction. Only a few years ago, I, too, was damning it. But it seems that about the time the Junior year rolls around some thirty-five per cent voluntarily choose to pursue the advanced course. That, it must be remembered, is only the percentage actually enrolled after certain unfortunate ones have been removed under the iron hand of Dr. Sibley or Mr. Lobdell.

(Continued on Page Four)

Internal Combustion Laboratory Has Steam Auto Used By President Taft

Research Work Carried on With Aid of Intricate Test Engines

A relic of a bygone era is the White Steamer that carried former President and Chief Justice Taft on his inaugural parade in 1909, given to the Institute by Professor Edward F. Miller '86. It now stands in a dark corner of the Internal Combustion Laboratory, offering a striking contrast to the modern and intricate engines which fill the rest of the building.

As an example of the means by which the internal combustion engine and the automobile have advanced so far since the days of two-lung, motor-driven buggies, is the N.A.C.A. Universal Test Engine, perhaps one of the most interesting pieces of apparatus in the laboratory. Although the engine proper consists of one cylinder with a 5-inch bore and a 7-inch stroke, it covers considerable floor area because of the maze of auxiliary apparatus required. Any event in the cycle can be varied while the motor is running, and intake temperature and pressure can be controlled.

Air-Cooled Diesel Tested

Among the other engines used for research purposes is an air-cooled Diesel which can be run either as a two-cycle or four-cycle engine. When running, the cylinder is cooled by a blower which simulates the conditions that would be met in actual service. A Horning knock-rating engine and a little affair on which the effects of different types of heads and spark plugs may be found are also included in the equipment.

Heat and Air Flow Studied

In addition, there is a wind tunnel used for experiments on the relations of air flow and heat flow. By its aid an experimental check on mathematical derivations for the flow of heat to air from various objects can be obtained.

On the other side of the laboratory

stands a row of engines intended primarily for the use of classes, most of which are standard types. Included in the equipment is a Holt Tractor engine, a Sterling Marine Engine, a Willys Knight sleeve-valve type, a Marmon straight eight, and two Franklin air-cooled motors, one having vertical, the other, side cooling.

Dynamometers Indicate Horsepower

Horsepower is indicated by means of two Froude water brakes which can go up to 5000 R.P.M., cradle, and fixed General Electric dynamometers. The electric energy generated is not used but is dissipated by resistance grids mounted under the roof.

Among the apparatus the laboratory has are pressure indicators, supercharger equipment, three road-test cars and a Coudry brake-tester.

Yale University boasts a student who spends three and one-half hours each day going to and from school, works eight hours a day, and finds time to attend classes, passing his work with the school average, in addition to getting a few hours of sleep now and then.

A recent survey at Reed College discovered that the average student follows the affairs of the comic strip characters with more interest than the affairs of the nation, state, or city.

Double Feature Extraordinary

fine arts STATE THEATRE BUILDING

A UFA PICTURE

"The Immortal Vagabond"

VIENNESE ROMANCE

—AND—

"BALINESE LOVE"

A PRIMITIVE SAGA

Entire Program English Dialogue



ANNOUNCING

The arrival of the Full Dress Coat to take the place of the Tuxedo for formal functions. Pictured here in the new body tracing, rope shouldered model. **FOR HIRE AND FOR SALE.** Make our store your dress clothes headquarters again this year.

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Saturday, November 28

Grand Ballroom

Hotel Bradford

8 UNTIL 12

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LEW CONRAD

And his MUSKETEERS

Direct from the Salle Moderne

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Five for Couples

Stags: Three

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Walker Memorial

APT ALTERATION

CHANGE and revision are always permissible when they make for the better. The Board of *Tech Engineering News*, in a successful endeavor to live up to the content of its magazine, has introduced in the November issue two notable improvements. In changing from Scotch Roman type to Bodoni, *T. E. N.* appears less as a scientific journal, and more as an interesting engineering magazine. The new department, "Engineering Digest," is also a move to modern thought: the synopsis form of long articles in current scientific publications which should be of interest to the average student.

As an undergraduate publication, *Tech Engineering News* is most appropriate at the Institute. Certainly the advancement of undergraduate thinking along engineering lines through fostering the publication of the deeds and thoughts of authorities is of great benefit to the value of a technical curriculum. Any attempt, therefore, to improve that organ, or in any way to make it appeal to a greater number of the undergraduate body is a movement which deserves the heartiest support.

Just how these improvements will be received by the student body, and what, if any, will be the outward result of the changes introduced, are matters for speculation. It must be granted that *T. E. N.* has the very difficult task of making itself appeal to students interested in many branches of engineering, at the same time treating interesting topics relative to one or all branches with equal fairness. The success and the popularity of this organ depend, primarily, upon its ability toward diplomacy. Every publication, to enjoy any fair degree of success, must appeal to the whims of its average reader. *T. E. N.* finds itself in a very annoying position. Whether or not these changes will bring to the magazine the proper rewards we cannot tell as yet. We only hope that the revision may have as much effect on the circulation as it has on the worth of the publication.

Tech Engineering News has many opportunities before it. It may be of as much service to the Institute itself than any other undergraduate function. We would applaud the management on its constructiveness, and we suggest that such policies, once begun, should be continued.

THE LATEST CRUSADE

FOR many years the question of Prohibition has been one occupying the public mind, and within the past few years there has been a growth of movements to bring about its repeal, the recent stand of the American Legion at its Detroit convention offering the most prominent example that comes to mind. More than a year ago, a student organization to work for the repeal of the Prohibition statute was begun and is reported to have had a steady growth.

The last issue of THE TECH stated that a branch of this group had been formed at Technology. Whether this body will long endure is a moot question, similar bodies having had relatively short lives. The least that such a group can do is offer to the members a chance to discuss the present situation and to give voice to a group opinion. Those members of the undergraduate body who are opposed to the repeal or revision of the laws governing the making and transportation of alcoholic beverages have not yet an organization which can do as much for them.

Whether the recently organized group will accomplish anything more than create a great deal of ballyhoo for a short while remains to be seen, but at least it indicates the opinions of one group of Institute men.

OUR SHARE

UNEMPLOYMENT relief movements have sprung up all over the world in an effort to bring to a more rapid close the present economic unbalance. Amusement centers, government agencies, and now educational organizations are contributing their share toward this good work.

In today's Open Forum is contained a letter from President Karl Taylor Compton announcing the unemployment relief measures to be undertaken by Morgan Memorial, and inviting the student body and the Faculty to attend the exposition to be held next week by that organization. It seems unnecessary to comment further upon the purposes of this movement. It seems only necessary to ask that what Institute men are able, attend this meeting.

It is, indeed, to appreciate the needs of others when we ourselves, perhaps, are sacrificing. Charity in this case, however, is not a one-sided affair. Each party in the Morgan Memorial Plan is to contribute his share, and the benefit is mutual. Other schools in the country are passing hats at football games, running social events for charitable purposes, and in general endeavoring to be of service in meeting present emergencies and in helping others to meet them. Perhaps by a large representation at the Morgan Memorial exposition next week the Institute may contribute some valuable assistance, not necessarily of a monetary nature, but in asserting itself wholly in sympathy with a worthwhile movement.

SQUASH PLAYERS BEGIN SCHEDULE DECEMBER FIRST

**Coach Summers Enthusiastic
Over Team; Promises A
Hard Schedule**

TO PLAY OTHER COLLEGES

With sixty men trying out for positions on the varsity squash team, a merry battle is being waged on the squash courts these nights. The freshman candidates, who number thirty, are not lacking in spirit and enthusiasm. This year is the fifth season of squash as a competitive sport at the Institute, and it is the fourth year that the team has been a member of the Massachusetts Squash Racquet Association. As a member of this association, the squad has entered a team in each of the B, C, and D classes of the association meets.

Summers to Continue as Coach

Technology has been fortunate to procure again the services of Jack Summers, one of the country's foremost professionals, as coach for the squad. As coach of the Institute team for the last two years, he has raised the standard of the game here considerably. Working with him is John J. McHugh, Inc., captain of the squad.

Schedule to Include Colleges

Actual competition is expected to get under way the first week of December, when the association will open its official season. The Faculty-Graduate team will compete in Class B, while the first and second varsity teams will compete in the C and D classes, respectively. The freshman team will compete in Class D. Besides participating in the regular M.S.R.A. meets, the varsity team will take on Trinity, Yale, and Harvard. The freshman team will meet the Harvard Freshmen, Union Boat Club, and the Boston Athletic Association, and also Pomfret and Exeter, if games can be arranged.

It is probable that the following teams will represent the Institute:

Varsity
John J. McHugh, Inc., Capt.
Lawrence DeGivie '33
Charles P. Payne '33
Charles P. Beaubien '34
David vanH. Ingalls '34
Hollinshead T. Martin '33

Second Varsity
Eric P. Newman '32
George J. Murphy '32
Gardner H. Prescott '32
Phillip A. Burchett '34
Henry J. Moreau '32
Robert B. Semple '32
Robert M. Love '33

Freshmen
Edward B. Reilly, Capt.
John R. Burton, Jr.
Arthur C. Marquardt, Jr.
Gerald M. Golden
Fitz R. White
William Boyd

BASKETBALL SEASON APPROACHES RAPIDLY

Varsity Will Play First Game On Saturday, December 5

Coach Henry P. McCarthy has finally arrived at a method for keeping all the freshman candidates for the basketball team. He has secured the use of the Walker Gymnasium on certain days, and has split up his squad into two sections. Allen M. Zollars '32, who has coached at the United States Naval Academy, will assist in the coaching.

One group, which contains about twenty men, consists of the better players. They will do most of their practicing in the Hangar Gym, where they will practise in conjunction with the varsity squad. The other group of about a dozen freshmen will have their workouts in Walker Memorial, under the direction of Mr. Zollars. If it is at all possible, no cuts will be made.

Since the opening of the season is less than three weeks away, both squads will get down to some real work this week. The varsity plays their usual starter against Newport Naval on December 5, while the freshmen will start a week later.

NEW MEN FOR RIFLE TEAM SHOW PROMISE

Candidates for the freshman rifle team have shown considerable ability during the first three weeks of practice, according to their coach. Under the guidance of Lieut. Edward C. Harwood and Sergt. John B. Fitzgerald, several men have advanced enough to shoot in sitting and standing positions. Freshmen who have made greatest progress are Richard E. Rice, Harry R. Foster, and Randall C. Smith. Of these, Rice has been outstanding, having made several perfect scores in the prone position. It is expected that all candidates will be scoring in all three positions in the near future.

PROMINENT PRODUCER GUEST AT INSTITUTE

Mr. W. H. Danforth Will Discuss Executive Opportunities

Mr. William H. Danforth will be the guest of honor at a dinner given by the graduates in the department of Business and Engineering Administration today. Mr. Danforth, President of the Ralston Purina Company of St. Louis, Missouri, is an outstanding business man in the Middle West. His company, which is engaged in the manufacture of food products, is one of the largest in the country, having thirteen producing units located in various sections of the United States and Canada.

In addition to his activities as director of the Joint Stock Land Bank, the First National Bank, and the Union Trust Company of St. Louis, and the New York Life Insurance Company, he finds time for his hobby, the preparation of young people in leadership. To this end he has organized the American Youth Foundation and the Danforth Foundation, of which he is President.

Seniors at the University of New Hampshire have dyed their "cords" a light green, the university color.

ELECTRICAL ENGINEER TO ADDRESS A. I. E. E.

Movies Will Aid Speaker In Demonstrating Topic

Freshmen and Sophomores in courses connected with Electrical Engineering are urged to take advantage of the opportunity of hearing Mr. Edward S. Mansfield '96, of the Edison Illuminating Company, speak on the "Generation or Distribution of Electrical Power and the Opportunities of the Engineering Graduate in Public Utilities."

Mr. Mansfield will be the guest of the Student Branch of the American Society of Electrical Engineers, and will speak at 5.15 o'clock in Room 10-250. Following the speech a roast duck dinner will be served in the North Hall of Walker Memorial. The purpose of these dinner meetings is to acquaint the undergraduates with the opportunities of electrical engineers in outside industry.

Tickets may be obtained from any member of the executive committee or at Room 4-203.

Oberlin College has two college bands, one made up of women and the other of men.

As We See the MOVIES

Fine Arts Theatre

"The Immortal Vagabond," feature picture at the Fine Arts Theatre, with Liane Haid, Gustav Frohlich and H. A. Schlettow in the leading roles, is a charming and delightful romance portrayed on the screen. The scenes are laid in Austria but the dialogue is in English.

The story centers around a young composer who, because of his poverty, is unable to marry his sweetheart. The girl's father, always looking on the financial side of the question, finally compels his daughter to marry a wealthy farmer in the absence of the composer. The hero finally returns, after becoming a successful musician, and marries the girl of his choice, who had become a widow.

D. H. C.

RKO-Keith-Boston

Jack Holt, assisted by Sally Blane and Ralph Graves, furnishes the piece de resistance of the cinema entertainment at the Boston this week. The story is concerned with an old house with hidden riches and concealed doors, and a young police lieutenant and his reporter friend, who set out to manufacture some excitement in a sleepy little village and succeed better than they had hoped.

It is the same old story, with some new angles, but very familiar; the plot is a bit incoherent, but this does not detract from

(Continued on Page Four)

YDIA EE	Open 7.30 A. M. to 3.00 P. M.
LUNCHEON	
Opposite Aeronautical Laboratory REASONABLE RATES	

Another successful RENTAL season for our
DOUBLE BREASTED TUXEDO
at student rate of \$2.25 ♦ Single Breasted \$1.50
READ & WHITE
111 Summer Street ♦ BOSTON ♦ 93 Massachusetts Ave.

**"Of course
I smoke Luckies
—they're kind to my throat"**

**"Of course I smoke
Luckies—I thought everybody did.
They're kind to my throat—you
don't hear them in the microphone.
And that's a very neat little
handle on your new Cello-
phone wrapper."**

Ina Claire



Ina Claire wasn't content with being an acknowledged ruler of the American stage—now she's capturing Hollywood, too! Here she is in one of those stunning Chanel creations she wears in Samuel Goldwyn's production, "The Greeks Had A Word For It," a United Artists' picture. Don't miss that picture.

**Made of the finest tobaccos—The
Cream of many Crops—LUCKY STRIKE
alone offers the throat protection of the
exclusive "TOASTING" Process which in-
cludes the use of modern Ultra Violet Rays
—the process that expels certain harsh,
biting irritants naturally present in every
tobacco leaf. These expelled irritants
are not present in your LUCKY STRIKE.
"They're out—so they can't be in!" No wonder
LUCKIES are always kind to your throat.**

"It's toasted"

Your Throat Protection—against irritation—against cough

**And Moisture-Proof Cellophane Keeps
that "Toasted" Flavor Ever Fresh**

**TUNE IN—The Lucky Strike Dance Hour, every Tuesday,
Thursday and Saturday evening over N. B. C. networks**



★Is Miss Claire's Statement Paid For?

You may be interested in knowing that not one cent was paid to Miss Claire to make the above statement. Miss Claire has been a smoker of LUCKY STRIKE cigarettes for 5 years. We hope the publicity here-with given will be as beneficial to her and to Samuel Goldwyn and United Artists, her producers, as her endorsement of LUCKIES is to you and to us.



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**MOISTURE-PROOF
CELLOPHANE**
Sealed Tight—Ever Right
The Unique Humidor Package
Zip—And it's open!



See the new notched tab on the top of the package. Hold down one half with your thumb. Tear off the other half. Simple. Quick. Zip! That's all. Unique! Wrapped in dust-proof, moisture-proof, germ-proof Cellophane. Clean, protected, neat, FRESH!—what could be more modern than LUCKIES' improved Humidor package—so easy to open! Ladies—the LUCKY TAB is—your finger nail protection.

OFFICIAL BULLETINS OF GENERAL INTEREST

Physics and Physical Chemistry

Massachusetts Institute of Technology
and Harvard University

Wednesday, November 18, 4.00 p.m., Room 4-231

Physics Colloquium:

1. "Color Effects in Ceramic Glazes." Professor F. H. Norton.
2. "New Researches on Hyperfine Structure." Dr. John Wulff.

Thursday, November 19, 3.00 p.m., Room 8-105

Joint Conference, Inorganic, Organic and Physical Chemistry. "Conductivity of Sodium Potassium Amides in Liquid Ammonia." Dr. W. W. Hawes.

Thursday, November 19, 4.30 p.m., Large Lecture Room
Jefferson Physical Laboratory

Special Lecture:

"Ether Drift Experiments." Professor Dayton C. Miller, Case School of Applied Science.

Thursday, November 19, 4.30 p.m., Harvard College Observatory, Building A
Astronomical Colloquium:

"The Spectrum of Nova Pictoris." Mr. H. Spencer Jones, His Majesty's Astronomer, Cape of Good Hope.

CALENDAR

Wednesday, November 18

- 5.30 p.m. — Worcester Polytechnic Institute dinner in Faculty Room, Walker Memorial.
- 6.00 p.m. — Faculty Club dinner dance in North and Main Halls, Walker Memorial.
- 6.30 p.m. — Course XV Graduate Students' dinner in Grill Room, Walker Memorial.

Thursday, November 19

- 5.00 p.m. — Banjo Club rehearsal in East Lounge, Walker Memorial.
- 5.15 p.m. — A. I. E. E. Meeting, Room 10-250.
- 6.00 p.m. — New England Paint and Varnish Company dinner, Grill Room, Walker Memorial.
- 6.00 p.m. — Instrumental Club rehearsal, East Lounge, Walker Memorial.
- 7.30 p.m. — Aeronautical Engineering Society meeting, Room 1-190.

Friday, November 20

- 5.45 p.m. — Corporation XV dinner meeting in Faculty Dining Room, Walker Memorial.
- 9.00 p.m.-2.00 a.m. — Tech Catholic Club dance, Main Hall, Walker Memorial.
- 12.15 p.m. — Course XVII dinner at the Riverbank Court Hotel. The President of the Boston Chapter of the A. G. C. of A. will speak.

Undergraduate Notices

DRAMASHOP CANDIDATES

Positions are open in the stage-managing department of Dramashop. Men interested should report in the Commons Room of Rogers Building on Saturday at 2 o'clock.

Infirmiry List

Crowther, John F. '32
Harvey, Gardner '33
Waidehich, Alfred

OPEN FORUM

(Continued from Page Two)

Were the basic course optional, scarcely a handful would enroll, thus two years later denying the bulk of that thirty-five per cent the privileges and benefits of further training. You may say that it is immaterial, for they would benefit more by the courses in Law and Economic Development, which you chose to substitute. A few years ago I heard the president of a large paper-manufacturing concern speak to a group of undergraduate engineers on the subject of "Men, Money, and Materials." In his opinion, an engineer, to be successful, must be able to deal with each, their relative importance being in the order named. In what course at Tech may one develop the ability to instruct and enforce discipline in a group of men? There exists no course such as Practice Foremanship. To be sure the quality of good leadership is not mysteriously bequeathed on Commencement Day. The R.O.T.C. is singular in offering that important training.

And from the general standpoint of National Defense — Washington, in advocating preparedness as the best insurance for peace, presented a policy many times tested and proved to be one of wisdom. Our standing army of 118,000 men offers only a small nucleus in case of emergency. France, England, Italy, Poland, China, Russia, Japan and Rumania each maintain a much larger peace-time military organization. But the War Department has since 1918 developed plans for a speedy mobilization of a reserve force of six field armies consisting of 4,000,000 men and 100,000 reserve officers. This last-named body is composed primarily of college men who have completed their R.O.T.C. training.

HARRIERS RATE HIGH AMONG EASTERN ACES

Chalmers Heads Freshman Team Captain Holby Running Behind Him

(Continued from Page One)

In addition to the record's being broken in both races, in the varsity run five men came under the old mark, and in the freshman race six men came under the old mark, set by McCluskey, of 14:37.

Among the freshman runners, Chalmers of the Institute team lead his teammates to the tape, in thirteenth place, running the finest race of the season for the yearlings. His time was only 39 seconds behind the old record for the course. He was in the running with the leaders right up to the finish, and never flagged once during the race up the hills and across the flat portions of the course.

Freshmen Take Second Place

Duncan J. Holby, red-headed captain of the freshmen, was the second of the Institute yearlings across the finish line, in thirty-third place, after a gruelling sprint against three other men who pushed him to the limit to the end. Root, Horton and Talbert were the three other team members to score, taking forty-first, forty-fourth, and fifty-second places respectively to make the team total 165, which landed them in seventh place.

Among the teams which were beaten by the well-balanced varsity squad are included aggregations of such strength as Maine, Princeton, Fordham, Yale, Dart-

Why deny a Technology man the professional position of an officer in case of war by allowing him in his first year to follow popular opinion, which expresses itself most strongly when in opposition to an existing order. Why deny him the training in discipline of the basic course followed by the opportunity to develop the ability to instruct and direct men, which the advanced course presents? If the Congress considers it expedient to include R.O.T.C. in its \$690,000,000 annual National Defense program, why deny it the bulk of good material by offering options which might appear more pleasing to the freshman than military drill. As Thomas Jefferson has written: "We must train and classify the whole of our male citizens and make military instruction a regular part of collegiate instruction."

W. E. BARBOUR '33.

DORM MEN WILL HOLD THEIR SECOND DINNER

Informal Gathering Will Hear Col. Vestal Afterward

Greatly encouraged by the enthusiasm with which the first Dorm Dinner was received last Monday, the Dormitory Committee has scheduled a second meeting for next Tuesday, November 24. The meal will be served in the Main Hall of Walker Memorial at 6 o'clock, each man being charged a nominal price.

Various members of the department of Military Science and Tactics will be present as guests of the Dormitory men. Col. Samuel C. Vestal, head of the Department, has agreed to give a short talk following the dinner, but has not as yet announced his topic.

At the University of Iowa, Lonzo Jones with the assistance of twenty upperclassmen, gave Orientation tests to seven hundred freshmen at once by means of eight loud speakers in the field house here.

The dean of men at Princeton declared in a recent address that one-third of the undergraduates in American colleges and universities today had no business ever going beyond high school.

mouth, Lafayette, C.C.N.Y., and Lehigh. Four teams of the eleven started, had scores higher than the freshmen from the Institute. These were Penn, Dartmouth, Princeton, and N.Y.U.

Dinner Follows Meet

Following the meet, a dinner was held in the hotel in New York, at which all the team members were present as well as several Alumni who had attended the meet in the afternoon. In the course of the dinner, J. C. Barrett was elected the captain of next year's cross-country team, and congratulations followed from all present. Only three men on this year's team will be lost through graduation, these being Captain Don Gilman, Jack Kearns, and Ellery Clark. With the men coming up from the freshman team, there should be a team next year which will make even a stronger bid for honors at this most important meet of the cross-country season.

Following are the team scores, both freshman and varsity:

	Freshmen				
Manhattan	2	3	4	5	18-31
Syracuse	7	3	16	23	22-50
Penn State	6	14	23	25	36-104
Cornell	12	21	31	32	46-142
Yale	15	16	33	34	56-154
Columbia	9	19	26	51	54-159
M. I. T.	11	30	37	40	47-165
Penn	12	29	39	45	68-194
Dartmouth	35	38	44	58	61-198
Princeton	35	38	41	42	48-204
N. Y. U.	43	52	53	55	60-263

	Varsity				
Harvard	6	7	8	11	12-44
Pennsylvania	7	3	16	23	52-95
Penn State	13	17	18	20	32-100
N. Y. U.	2	9	15	40	54-129
Syracuse	14	26	29	31	35-135
Manhattan	5	10	25	51	60-151
Cornell	21	22	28	42	44-157
Columbia	36	40	46	49	58-228
M. I. T.	37	48	50	57	59-250
Maine	24	30	62	63	74-253
Princeton	27	43	53	73	77-273
Fordham	4	67	86	87	93-337
Yale	34	64	80	82	92-352
Dartmouth	61	65	70	72	97-365
Lafayette	68	68	76	79	88-377
C. C. N. Y.	85	95	98	103	104-486
Lehigh	98	101	102	105	107-513

The Spectator

(Continued from Page Two)

play such as he suggests. We are not looking for "drama," or for glorified masculinity, but for a home-made show, of, by, and for Technology students. The chance is waiting for some group to come forward, support Bill, and grasp the controls of a real Tech Show.

Dishonoraries

The fact that an organization is decadent is no reason for abolishing it altogether. Yet that seems to have been the principal argument for getting rid of Tech Show.

The Spectator has been accused of using the same argument against the honorary societies. He has been saying that the honorary societies were all bunk. The editor, on the other hand, has been calling for their abolition on the grounds of general decay and uselessness. The Spectator does not care particularly whether they are abolished or not; some of them undoubtedly serve a good purpose. But he would like to see removed, once and for all, the idea that there is anything "honorary" — much less "honorable" — in being a member of one of these "honorary" societies. The pretense that there is any "honor" attached to such membership is plain bunk, and nothing else.

The fact is that the initiation ceremonies of some of these societies are such that no self-respecting man would go through with them.

Flunking M77

The latest in sad stories concerns the plight of those Course VI Seniors who flunked M77 last semester. It is difficult to see why anyone should flunk M77. It is true that after studying vector analysis for a term you don't know any more about it than when you started; but neither does anyone else. So the professor usually has to pass or flunk the whole class — although in this respect it is not quite as bad as some of Wiener's courses, which no one ever flunks.

The beautiful thing about vector analysis is that it is of no practical value except under conditions which never exist. If, after studying it for a semester, you manage to deduce that fact, you are so brilliant that you belong in Course VIII, not Course VI.

Anyway, these Seniors flunked M77, which is a prerequisite for a certain fourth-year subject which, in turn, is a requisite for graduation. All efforts to persuade the Mathematics Department to run a special class in M77 have failed. Result: said Seniors do not graduate.

The Spectator has always known, ever since his first problem section in 600, that Course VI was the hardest course in the curriculum. The subject matter is intangible, for one thing. When something goes wrong with a steam engine, you grab two or three wrenches and tear into it. But when a radio circuit goes haywire, you sit and wiggle things and cuss, and hope against hope to wiggle something that will tell you where the trouble is.

As We See The Movies

(Continued from Page Three)

the excellent acting and photography. In fact, that seems to be chronic in the movies; good acting and superlative technique, and a miserable story. But we cannot blame the RKO-Boston for that.

The stage show is average good. Mr. Higgins, the young tenor, has an excellent voice of much promise, but it would be well if he would choose more interesting numbers. Senator Murphy, "The People's Choice," was very amusing; he made one think of the address just made from the screen by the mayor.

Bernardo De Pace is a real wizard with the mandolin; he can even make it talk. We wish the management had given him more time. The rest of the vaudeville was made up of the usual humorists and dancing girls, with the inevitable juggler, who caught an egg on a plate, and a Japanese acrobat, all average good or better.

We recommend the program as an evening's entertainment.

C. W. S.

Co-ed freshmen at University of Pittsburgh are barred from all activities on the campus here during the first semester under the provisions of a new ruling by the W.S.G.A. This includes the school paper, annual, humor magazine, dramatics, and orchestra.

Lost GOLD RING

Coral Cameo Setting

RETURN TO MISS HAM

Aeronautical Department Room 33-317

The smoke you like... is the smoke she likes for you!

"I like to see a man smoke a pipe!"
You've heard your own girl say it, perhaps. You're sure to hear it wherever girls get together.

They puff away at our cigarettes. But they like to see us have a go at the "strong, silent man's smoke" — a companionable, time-proven pipe.

There is something satisfying about a pipe. It's a slow, reflective, hard-thinking smoke — or a calm, relaxing, restful smoke. The hunter's smoke, the fisherman's smoke, the engineer's smoke — a man's smoke, through and through.

And pipe smokers who know their fine tobaccos tell you there's no blend quite like the fine selected burleys of Edgeworth — the favorite tobacco in 42 out of 50 leading colleges.

Do try Edgeworth. Perhaps you will like it as well as most men seem to. Edgeworth is at your dealer's. Or send for free sample if you wish. Address Larus & Bro. Co., 105 S. 2nd Street, Richmond, Va.

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Edgeworth is a blend of fine old burleys with its natural savor enhanced by Edgeworth's distinctive and exclusive elevating process. Buy Edgeworth anywhere in two forms — Edgeworth Ready-Rubbed and Edgeworth Plug Slice. All sizes, 15¢ pocket package to \$1.50 pound humidifier tin.



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HERE you'll find Boston's most thoroughly enjoyable dinner and supper dance-assemblies—delicious food, delightful music and good company always! Gala programs every Wednesday and Thursday evening with **Leo Reisman, in person, directing.**

Dinners \$1.50-\$2-\$2.50—no couvert.
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